

IN THE CLAIMS

Please amend claims 1, 3, 17, 18, and 34. Please add claim 37.

1. (currently amended) A radiation source comprising:
an outer housing having a fastener, said outer housing configured to be opened;
a substrate removably contained within said outer housing, said substrate having
a front surface; and
a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope
2. (original) The radiation source according to claim 1, wherein said substrate is flexible.
3. (currently amended) ~~The radiation source according to claim 2,~~ A radiation source comprising:
an outer housing having a fastener, said outer housing configured to be opened;
a substrate removably contained within said outer housing, said substrate having
a front surface; and
a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, wherein said substrate is flexible,~~wherein~~ said substrate has a first form factor when contained within said outer housing, and said substrate is manipulable to have a second form factor smaller than said first form factor when said substrate is removed from said outer housing.
4. (original) The radiation source according to claim 2, wherein said substrate is made of one of paper and plastic.

5. (original) The radiation source according to claim 1, wherein at least a portion of said radioactive deposit has at least two layers.
6. (previously presented) The radiation source according to claim 5, wherein the activity density of each of said at least two layers is the same.
7. (original) The radiation source according to claim 1, wherein said substrate is radiopaque.
8. (original) The radiation source according to claim 1, wherein said radioactive deposit includes a colorant.
9. (previously presented) The radiation source according to claim 8, wherein a color of a portion of said radioactive deposit corresponds to the activity level of said portion of said radioactive deposit
10. (original) The radiation source according to claim 1, wherein said radioactive deposit includes a binding agent for fixedly depositing said radioactive deposit on said front surface.
11. (original) The radiation source according to claim 1, wherein said radioactive deposit is fixedly deposited upon said front surface by covering said radioactive deposit and said front surface with a sealing layer.
12. (original) The radiation source according to claim 1, said fastener being a latching mechanism that may be selectively unfastened.
13. (previously presented) The radiation source according to claim 1, said outer housing configured to be opened by removal of said fastener.

14. (original) The radiation source according to claim 1, further including a second substrate with a second radioactive deposit deposited thereon, said second substrate being contained within said outer housing.

15. (original) The radiation source according claim 14, wherein the combination of said radioactive deposit and said second radioactive deposit produces a desired radioactive deposit.

16. (original) The radiation source according to claim 1, wherein said radioactive deposit has a substantially uniform activity distribution.

17. (currently amended) A radiation source for calibration of nuclear imaging equipment, said radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a flexible substrate removably contained within said outer housing, said substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, a binding agent, and a colorant, wherein

at least a portion of said radioactive deposit has at least two layers, each layer having substantially the same activity density, and

a color of a second portion of said radioactive deposit indicates the activity level of said portion of said radioactive deposit.

18. (currently amended) A radiation source for calibration of nuclear imaging equipment, said radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a flexible substrate removably contained within said outer housing, said substrate having a front surface;

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, and a colorant; and a sealing layer covering said radioactive deposit and said front surface of said substrate, wherein

at least a portion of said radioactive deposit has at least two layers, each layer having substantially the same activity density, and

a color of a second portion of said radioactive deposit indicates an activity level of said second portion of said radioactive deposit.

Claims 19 - 33 (cancelled)

34. (currently amended) A nuclear imaging system, comprising:

a piece of nuclear imaging equipment to be calibrated; and

a radiation flood source to calibrate the piece of nuclear imaging equipment including,

an outer housing having a fastener, said outer housing configured to be opened,

a substrate removably contained within said outer housing, said substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope.

35. (previously presented) The nuclear imaging system of claim 34, further including

a second substrate with a second radioactive deposit deposited thereon, said second substrate being contained within said outer housing.

36. (previously presented) The nuclear imaging system of claim 34, wherein the combination of said radioactive deposit and said second radioactive deposit produces a desired radioactive result.

37. (new) A radiation source for calibration of nuclear imaging equipment, said radiation source comprising:

- an outer housing having a fastener, said outer housing configured to be opened;
- a flexible substrate removably contained within said outer housing, said substrate having a front surface; and

- a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, a binding agent, and a colorant, wherein

- said substrate has a first form factor when contained within said outer housing, and said substrate is manipulable to have a second form factor smaller than said first form factor when said substrate is removed from said outer housing;

- at least a portion of said radioactive deposit has at least two layers, each layer having substantially the same activity density, and

- the color of a portion of said radioactive deposit indicates the activity level of said portion of said radioactive deposit.